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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,997	07/12/2002	Neil Fraser Fairweather	078883-0143	2604	
7	590 04/13/2005		EXAM	INER	
Michele M Si	Michele M Sirnkin			FORD, VANESSA L	
Foley & Lardner			ART UNIT	DADED MUNICIPAL	
Washington Harbour Suite 500			. ARI UNII	PAPER NUMBER	
3000 K Street NW			1645		
Washington, DC 20007-5143			DATE MAILED: 04/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/018,997	FAIRWEATHER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Vanessa L. Ford	1645			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•				
1)⊠ Responsive to communication(s) filed on <u>26 December</u> 2a)□ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under Expression in the practice of the practi	action is non-final. nce except for formal matters, pro	esecution as to the merits is 63 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 1-11 and 13-18 is/are pending in the a 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-11 and 13-18 are subject to restriction. Application Papers	wn from consideration.	· · · · · · · · · · · · · · · · · · ·			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the lid drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati nty documents have been receive u (PCT Rule 17.2(a)).	on Noed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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Art Unit: 1645

Lack of Unity

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Election/Restrictions

Group I Claims 1-4, 9-10 and 16 are drawn to a polypeptide, pharmaceutical composition and vaccine.

Group II Claims 5-8 are drawn to a polynucleotide, vector and host cell.

Group III Claim 11 is drawn of a method of treating or preventing or reducing the susceptibility of *C. tetani* infection comprising administering a polypeptide.

Group IV Claim 13 is drawn of a method of producing antibodies.

Group V Claim 14 is drawn to a method of treating *C. tetani* infection comprising administering antibodies.

Group VI Claim 15 is drawn to a method of reducing the binding affinity.

Group VII Claim 17 is drawn to a vaccine comprising a polynucleotide.

Group VIII Claim 18 is drawn of a method of treating or preventing or reducing the susceptibility of *C. tetani* infection comprising administering a polynucleotide.

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2. The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is a polypeptide with a reduction in neuron and ganglioside binding as well as a reduction in the ability to undergo retrograde transport. The special technical feature lacks novelty under PCT Article 33(2) as anticipated by Shapiro et al (*The Journal of Biological Chemisty, Vo. 272, No. 48, November 28, 1997, p. 30380-30386*). Shapiro et al also teach a peptide of the tetanus fragment C (amino acids 858-1305) that has reduced neuron and ganglioside binding (page 30385). Therefore, the polypeptide of the prior art has the same characteristics as the claimed polypeptide. Group I is the main invention in this application and it lacks novelty, therefore the other claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form single inventive concept.

Inasmuch as, the technical feature does not define contribution over the art, it is not "special" within the meaning of PCT Rule 13.2. Consequently, Groups I-VIII lack unity of invention.

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Conclusion

3. Any inquiry of the general nature or relating to the status of this general application should be directed to the Group receptionist whose telephone number is (703) 308–0196.

Papers relating to this application may be submitted to Technology Center 1600, Group 1640 by facsimile transmission. The faxing of such papers must conform with the notice published in the Office Gazette, 1096 OG 30 (November 15, 1989). Should applicant wish to FAX a response, the current FAX number for the Group 1600 is (703) 872-9306.

Any inquiry concerning this communication from the examiner should be directed to Vanessa L. Ford, whose telephone number is (571) 272-0857. The examiner can normally be reached on Monday – Friday from 9:00 AM to 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith, can be reached at (571) 272-0864.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov./. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vanessa L. Ford

Biotechnology Patent Examiner

April 7, 2005

LYNETTE R. F. SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600